

HU-25A Guardian #524 08/27/16

Aircraft:

[HU-25A Guardian #524](#) (See full schedule)

Flight Number:

OIB 2016 on HU-25 #17

Payload Configuration:

ATM

Nav Data Collected:

No

Total Flight Time:

3.7 hours

Submitted by:

Richard Yasky on 08/27/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	08/27/16 12:00 Z	Finish:	08/27/16 15:44 Z
Flight Time:	3.7 hours		
Log Number:	16F003	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
Purpose of Flight:	Science		
Comments:	Operated on NW Coastal B OIB route. In frontal clouds at FL280 for first and last 40 minutes of mission. Mostly clear skies for points north of about 73 deg North latitude. Lateral deviations left and right of track decreased as mission HF communication improved and internal understanding was clarified.		

Flight Hour Summary:

	16F003
Flight Hours Approved in SOFRS	121.25
Total Used	126.9
Total Remaining	-5.65

16F003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
06/29/16	OIB 2016 on HU25A ICF	Science	2	2	119.25
07/11/16	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65
07/11/16	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15
07/11/16 - 07/12/16	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95
07/12/16 - 07/13/16	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35
07/13/16	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95
07/14/16	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45
07/15/16	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
07/19/16 - 07/20/16	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
07/20/16	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
07/21/16	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
07/22/16	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25

07/22/16	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
07/22/16	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
08/23/16	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
08/25/16	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
08/25/16	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
08/27/16	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
08/29/16	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
08/29/16	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
09/01/16	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
09/02/16	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
09/02/16	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
09/05/16	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
09/06/16	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
09/09/16	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
09/09/16	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
09/10/16	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
09/11/16	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
09/11/16	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
09/12/16	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
09/12/16	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
09/13/16	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
09/13/16	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
09/15/16	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95
09/16/16	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Related Science Report:

OIB - HU-25C Guardian #524 08/27/16 Science Report

Mission:

OIB

Mission Summary:

OIB began the second phase of its summer deployment with the LaRC HU-25A Falcon, based out of Kangerlussuaq, Greenland. With ATM, CAMBOT and FLIR onboard, we'll be re-surveying portions of the Greenland Ice Sheet that were surveyed this past spring and also surveying a few baseline missions that we weren't able to survey with the NOAA P-3. Up to 16 flights are planned at a nominal altitude of 28,000', with the possibility of two flights per day under optimal conditions.

Today, we flew Falcon NW Coastal B, which surveys two parallel fluxgates along the northwest coast, inland of NW Coastal A. Cloud cover cross Greenland's mid-section limited our options. A front in west central Greenland is forecast to dissipate and open up more options for this coming week.

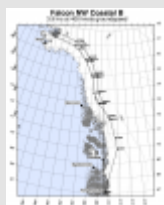
Heading north, cloud cover at the southern end of the transect limited data collection until near Risk Isbræ, but otherwise data collection with ATM T5 was as expected. Numerous supraglacial lakes were observed, but nearly all were in the process of freezing over. There was little sign of active surface melting, suggesting a good match between the campaign timing and overall objective (surface elevation repeats at the conclusion of the melt season).

Images:

Supraglacial lakes freezing over along Greenland's northwest coast

[Read more](#)

Falcon NW Coastal B flight plan

[Read more](#)**Submitted by:**

Joseph MacGregor on 08/29/16

NASA Official: Bruce A.

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